3/048/61/025/092/001/016 B117/B212

AUTHORS:

Balashov, V. V., Neudachin, V. G., and Smirnov, Yu. F.

TITLE:

Structure of light nuclei

PERIODICAL:

Izvegtiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25,

no. 4, 1961, 170-188

TEXT: The present paper was read at the 10th All-Union Conference on Nuclear Spectroscopy (Moscow, 1960), and also at the 11th Annual Conference on Nuclear Spectroscopy (Riga, January 25 to February 2, 1961). The authors summarize the progress in the development, concerning the theory of light nuclei and mainly deal with two aspects which underly their description of the theory of light nuclei: 1) Utilization of a modern shell model to calculate the characteristics of ground states and least excited states; 2) The question of consistency of various models of light nuclei. The first chapter deals with the manybody aspects of the shell theory. A theoretical argumentation of the shell model is not given; the model is only treated as a semi-empirical method providing a simple explanation of experimental data, and at the same time furnishing a means for predicting lower-excited nuclear Card 1/5

APPROVED FOR RELEASE: 12/02/11; CIA-RDP86-00513R001136700015-6

82605

Position of the Giant Resonance in the Dipole Absorption of $\gamma\text{-Quanta}$ by Atomic Nuclei

S/056/60/039/01/17/029 B006/B063

Yu. M. Shirokov for his discussions. There are 1 figure and 15 references: 5 Soviet, 8 US, 2 Canadian, 1 British, and 1 Dutch.

ASSOCIATION:

Institut yadernoy fiziki Moskovskogo gosudarstvennogo

universiteta

(Institute of Nuclear Physics of Moscow State University)

SUBMITTED:

January 28, 1960 (initially) and March 11, 1960

(after revision)

Card 3/3

82605

Position of the Giant Resonance in the Dipole Absorption of γ -Quanta by Atomic Nuclei

5/056/60/039/01/17/029 B006/B063

These calculations were made by the authors for Ca 40 and v^{51} for which there is sufficient spectroscopic material available. The calculations are described in detail for the E1-absorption of a $\gamma\text{-quantum}$ by

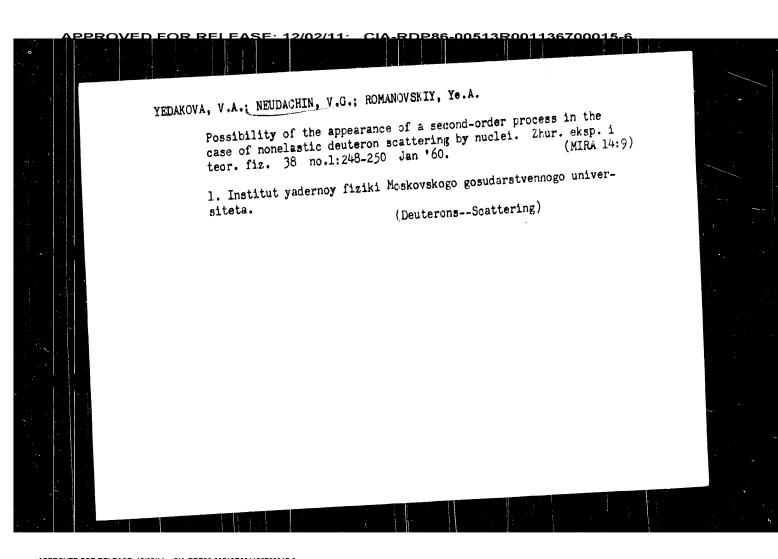
 v^{51} , such as the transition (1): $(vf_{7/2})^8(\pi f_{7/2})^3 \rightarrow (vf_{7/2})^8(vf_{5/2})$

 $(\pi f_{7/2})^3$. The experimental data necessary for this purpose as well as their sources are given. The energy of transition (1) was estimated to be 19 + 20 Mev. Formulas for the absorption cross section are given for a) transitions from incompletely filled shells and b) transitions from filled shells. The results (E1-absorption curves) obtained for

v⁵¹ and Ca⁴⁰ are shown in the first diagram; the other three diagrams contain the curves obtained for Ni⁵⁸, Cu⁶³, and Cu⁶³ as compared to the experimental curves determined in the papers of Refs. 13 and 15. Satisfactory agreement is found also in this case. For the three last-mentioned isotopes, however, the experimental material available is comparatively poor, so that the results are not very exact. Finally, the authors thank V. V. Balashov and Yu. F. Smirnov for their helpful advice, as well as

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700015-6 NEUDACHIE, V.G. s/056/60/039/01/17/029 82605 B006/B063 Yudin No Pos Neudachin, V. G., Shevchenko, V. G., 24.6200 Position of the Giant Resonance in the Dipole Absorption AUTHORS: of Y-Quenta by Atomic Nuclei Zhurnal eksperimental noy i teoreticheskoy fiziki, TITLE: 1960, Vol. 39, No.1 (7), pp. 108-111 TEXT: The shell theory has already been used by Wilkinson (Ref. 1) to calculate the dipole absorption of gamma quanta and to explain the width PERIODICAL: and area of giant resonance lines. It was, however, found that the theoretical giant resonance energy was about twice as high as the experimental anarmy Attampts to avoid this difficulty by introducing an Haffactural anarmy mental energy. Attempts to avoid this difficulty by introducing an tive mass" led to an increase in the spacing between neighboring single particle levels (~ 14 MeV); whereas the value of 6.7 MeV was experimental. Particle revers (~ 14 mev); whereas the value of one mev was experimental.

ly confirmed. In the present article the authors show that for nuclei with A < 70 a consideration of the residual pair interactions in the calculation of giant resonance according to the ghall theory yields using which agrees of giant resonance according to the shell theory yields values which agree with experiments without the necessity of introducing an Haffestive mass. with experiments; without the necessity of introducing an "effective mass". card 1/3



APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700015-6

The Energy Dependence of the Differential Cross 5/089/60/009/004/006/020 Sections and the Mechanism of the (d,p) Reaction B006/B070

the relative and absolute values of the reduced widths change with $\mathbf{E}_{\mathbf{d}}$

	and absolute values of the formal of the Spin Transition			Reduced Widths				
Reaction	Level of the Final Nucleus	and Parity		Ed * 8	8.9	9	14.8	19 Mev
c ¹² (d,p)c ¹³	ground level	1/2-	$p^{8} \rightarrow p^{9}$ $p^{8} \rightarrow p^{8} = 1/2$	2.2	1.3 3.8	1.2	1.9 8.3	0.9
(=,1,	3.09 3.684 3.855	3/2° 5/2°	n8→n9	0.16 3.5	0.48 2.6	0.38	0.28 5.7	1.1 19.1Mev
0 ¹⁶ (d,p)0 ¹⁷	ground level	, +	p12,p12d5/2	Lol	1.0	7.0		1.8
N14(d,p)N15	ground level	1/2 3/2	p10-p11 p10-p11 p10-p11	E _d = 8 2.1 11.5	9 0.2 4.5		8	
	8.32	1/2	p → p 1/2	1110)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

8/226 S/089/60/009/004/006/020 B006/B070

24.6600 AUTHORS: Belyayev, V. B., Zakhar'yev, B. N., Neudachin, V. G

TITLE

The Energy Dependence of the Differential Cross Sections and the Mechanism of the (d,p) Reaction

PERTODICAL: Atomnaya energiya, 1960, Vol. 9, No. 4, pp. 298 - 300

TEXT: The present "Letter to the Editor" gives the results of an analysis of the experimental data on stripping reactions. $d\sigma/d\Omega$ is represented as a function of the relative reduced level widths γ^2 in Born approximation, and the dependence of γ^2 on the deuteron energy E_d is described by Butler's formula. In order that the need for corrections to Butler's Butler's possible, only cases with $E_d > 4$ MeV have been formula be as small as possible, only cases with $E_d > 4$ MeV have been selected for analysis. The results of the analysis are given in a table. The dependence of γ^2 on E_d is also given in the table. The absolute error of these data is 50%, and the relative error is 10%. In a number of cases,

Clustering of Nucleons in Light Nuclei

Clustering of Nucleons in Light Nuclei

ASSOCIATION:

Institute Nuclear Physics at the Moscow State University,
USSR (Institut yadernoy finiki Moskovskogo geometrativs nogo universiteta, SSSR)

SUBMITTED:

July 18, 1959

Card 4/4

ROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136/00015-6

Clustering of Nucleons in Light Nuclei

76996 80V/56-37-6-36/55

From these relations the following expression was obtained for the equivalence of wave functions with LS-coupling:

$$\psi([\alpha] LST) = A\Phi(L) \chi(S_1 T_1 [\alpha_1] 1234) \chi(S_2 T_2 [\alpha_2] 5678) \dots \times \\
\times \chi(S_m T_m [\alpha_m] n - \alpha_m, n - \alpha_m + 1, \dots, n). \tag{5}$$

This relation was applied to the calculation of the wave function of the ground states in Be⁸ and B¹⁰. There are 8 references, 2 Soviet, 4 U.K., 1 Swiss, 1 U.S. The U.S. and U.K. references are: J. K. Perring, T. H. Skyrme, Proc. Phys. Soc., A69, (00 (1956); K. Wildemuth, Th. Kannelopoulos, Nucl. Phys., 7, 150 (1958); 9,449 (1959); H. Jahn, Proc. Roy. Soc., A209, 502 (1951); S. J. Biel, Proc. Phys. Soc., A70, 866 (1957); G. Raeah, Phys. Rev., 63, 367 (1943).

Card 3/4

Clustering of Nucleons in Light Nuclei

76996 sov/56-37-6-36/55

(where A is antisymmetrization operator; r is symbol allowed a given $[\alpha]$; $[\alpha]$ and \widehat{r} are symbols analogous to $[\alpha]$ and r, but for conjugated concept). The above equation is equivalent to the usual expression:

$$\phi([\alpha]LST) = \sum_{r} \Phi(L[\alpha]r) \chi(ST[\widetilde{\alpha}]\widetilde{r}), \qquad (2)$$

(cf. H. A. Jahn, H. van Wieringen, Proc. Roy. Soc., A69, 600, 1956). The following relation was obtained for the spin-orbital functions corresponding to Young's scheme with maximal symmetry (in which only $\alpha_{\rm m}$ can be < 4):

$$\chi\left(ST\left[\widetilde{\alpha}\right]\widetilde{r}_{0}\right) = \chi\left(S_{1} = 0T_{1} = 0\left[\widetilde{\alpha}_{1}\right]1234\right) \chi\left(S_{2}T_{2}\left[\widetilde{\alpha}_{2}\right]5678\right) \dots \times
\times \chi\left(S_{m}T_{m}\left[\widetilde{\alpha}_{m}\right]n - \alpha_{m}, n - \alpha_{m} + 1, \dots, n\right) = \sum_{\widetilde{r}}C_{\widetilde{r}}\chi\left(ST\left[\widetilde{\alpha}\right]\widetilde{r}\right).$$
(4)

16.8300,24.6000

AUTHORS:

Neudachin, V. G., Smirnov, Yu. F., Yudin, N. P.

TITLE:

Clustering of Nucleons in Light Nuclei

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki,

1959, Vol 37, Nr 6, pp 1781-1783 (USSR)

ABSTRACT:

The equivalence of wave functions of the shell theory with LS-coupling for states with a higher symmetry of the orbital part and the antisymmetrized wave functions composed of wave functions of nucleon clusters, was demonstrated with the aid of the permutation group theory. The total wave function ψ ([C] LST) for the system with whole orbital momentum L, spin S, isobaric spin T, and Young's scheme for orbital part of the wave function $[\alpha] \equiv [\alpha_1, \alpha_2, ..., \alpha_m]$ was

expressed as follows:

 $\psi([\alpha] LST) = A\Phi(L[\alpha] r) \chi(ST[\widetilde{\alpha}] \widetilde{r}),$ (1)

Card 1/4

207/ 56-37-1-35/ 56

On the Use of (d,p)-Reactions for the avoitable of States with Large Spins

process also deviates from that at the ordinary stripping process. The knock-out and the spin-flip process in the (d,p)-reaction are considerably more sensitive to the nuclear Coulomb field, and as, besides, for the excitation of states with large spins the orbital moments of senterons, which are different from zero, play the principal part, it is best to use desterous with energies that are several times higher than the Coulomb barrier, e.g. $E_d \lesssim 15$ MeV for $E_d \sim 12$, $E_d \lesssim 8$ MeV for $E_d \sim 12$.

lower energies the pear and all all flatter where additions are explained on the basis of the reaction $\log^{24}(d,\rho) k e^{2\rho^2}$

(E = 1.61 MeV, $J^* = 7/r^2$) at 8 MeV (Set 11). Figure 10.00 the engaler distribution (1.00 for the research forms

the angular distribution of protons from this process. There are 2 figures and 13 references, 4 of which are Soviet.

ASSOCIATION: Institut yaderno; fluiki desertion recorded taratventero cristeta (Institute of fluiter Physics of kercow State Uni

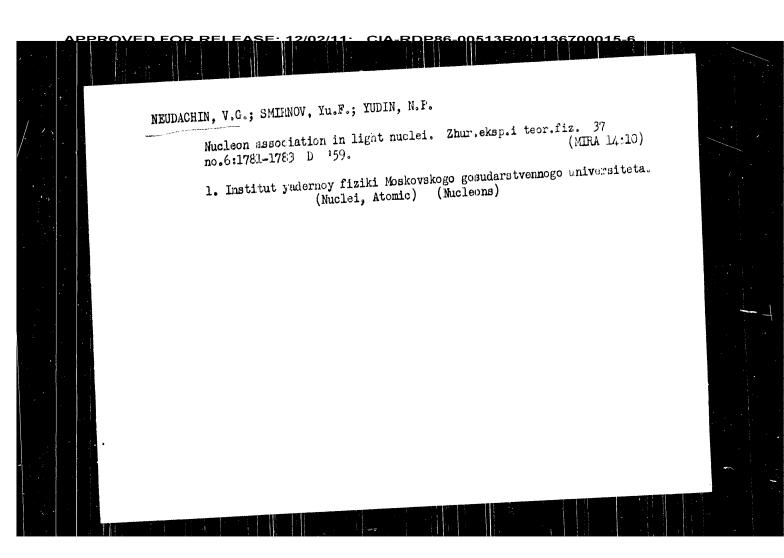
versity)

SUBMITTED:

May 8, 1959

On the Use of (d,p)-Reactions for the Excitation of States With Large 2,100 cur; the indices p and n denote proton and neutron respectively in the inciding deuteron, p_2 - the departing proton. It may be in the inciding deuteron, p_2 - the departing process the Higgs seen from the equations that in a knock-out process the Higgs and the spins may, from the initial to the final state of the proton and the case of the ordinary attain a much higher value than in the case of the ordinary attripping process. In order to illustrate these conditions, the stripping process. In order to illustrate these conditions, the stripping process. In order to illustrate these conditions, the stripping process $B^{10}(d,p)B^{11*}$ ($E_{exc} = 2.14 \text{ MeV}$, bution in the knock-out process $B^{10}(d,p)B^{11*}$ ($E_{exc} = 2.14 \text{ MeV}$, den. The calculation was carried out for the energies $E_c = 4.4$, and 12 MeV ($R = 4.8.10^{-13}$ om). Results are shown by figure 1 and are compared with Butler's curves. It was found that for all energies the maximum of the curves for the ordinary stripping process is narrower than for the knock-out process. For spin-flip the condition $J_1 + J_1 + B_2 + B_3 = J_4$, $(\Delta J)_{max} = 3.4$ holds $(B_0 - \text{proton spin})$. The angular distribution for I_1

sov/56-37-2-33/56 Neudachin, V. G., Teplov, I. B., Tulinov, A. F. 21(7) On the Use of (d,p)-Reactions for the Excitation of States With AUTHORS: TITLE: Large Spins Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959, Vol 37, Nr 2(8), pp 548-550 (USSR) PERIODICAL: Gol'danskiy suggested that the inclustic scattering of complex nuclei be used for the excitation of nuclear moments with large spins; the authors of the present "Letter to the Editor" show, ABSTRACT: on the other hand, that in the case of light suclei the on one other name, that is the cross of target social some may be attained by using the (4,p) function. For the or . stripping process $\vec{J}_i + \vec{J}_n = \vec{J}_f$, $(\Delta J)_{max} = 1$ holds, where \vec{J}_i and \vec{J}_f are the spins of the initial confinal stability spectively, $\mathbf{j_n}$ - the total angular momentum of the capture nucleon. Ordinary stripping to Parbidaen onless this conduction is satisfied. In such a case, spin-flips or knock-cut proveds as with the condition $\vec{J}_1 + \vec{J}_{p_1} + \vec{J}_{n_1} = \vec{J}_f + \vec{J}_{p_2}$, $(\Delta J)_{max} = 51 \text{ MeV}$ Card 1/3



Comparison of the Differential Cross Sections of the SOT/56-36-6-15/66
Reactions (df) and (dt)

finally thank N. A. Vlasov and A. A. Ogloblin for discussions.
There are 3 figures, 2 tables, and 19 references, 2 of which are Soviet.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Institute of Nuclear Physics of Moscow State University)

SUBMITTED: November 24, 1958

Comparison of the Differential Cross Sections of the Reactions (dp) and (dt)

SOV/56-36-6-15/66

Butler's formulas has not the significance of an "amplitude square of the nucleon wave function on the nuclear surface" because it does not remain constant in the case of a variation of deuteron energy, but that it changes very abruptly. It is possible to explain this by the influence exercised by exchange effects in the stripping reaction (Ref 3). The authors consider the (d,t) reaction to be a special case of a stripping reaction between two complex systems and determine (in Born's approximation for plane waves) the reduced widths for the (d,t) and (d,p) reactions by comparing various triton wave functions (e.g. the Irving and the Gauss form) (Fig 1, Table 1); (\$\dag{2}(k) - Fourier - Vlasov and Oglobin)(Ref 14, Fig 2), The neutron wave function, which, with respect to the deuteron in the triton shows the best agreement with experimental results, is given. For the probability of finding the triton in the (deuteron+neutron) state 0.4 is given (accurately: 0.37+20%), which considerably exceeds the value of 0.11 found by Werner (Ref 1). In table 2 the data of various (d,t) reactions on light elements (Refs 9-14) are compared, and from the A_0^2 -values the mean value (0.37) is determined. The authors

\$07/56-38-6-15/66 21(7), 24(5) Kurepin, A. B., Neudachin, V. G. AUTHORS: Comparison of the Differential Cross Sections of the Reactions (dp) and (dt) (Sravneniye differentsial nykh secheniy re-TITLE: aktsiy (dp) i (d.)) Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 6, pp 1725 - 1730 (USSR) PERIODICAL: From the analysis of the angular distributions of tritons from (d,t) reaction there results an analogy, in the case of ABSTRACT: deuteron energies of several megavolts, between the (d,t)and the (d,p)-mechanism, i.e. stripping reactions are concerned. The authors of the present paper investigate the problems connected herewith, viz.: a) comparison of the "reduced widths" y 2 from (d,p) and (d,t) reactions, and b) that part of the triton wave function which corresponds to the "deuteron + neutron" state; the results obtained are compared with those obtained by other authors (Refs 1,2). As shown by an analysis of experimental data obtained in the course of recent years, (V.B. Belyayev, B. N. Zakhar'yev, and V. G. Neudachin - publication will follow), the reduced width & in Card 1/3

On the Part Played by the Exchange Effects in Stripping Leactions sov/56- 6-3-30/71

viz. the curves for common stripping, knock out (jj-coupling), knock out (LS-coupling), and the stripping of heavy particles, in all cases in the range $0 \le 0 \le 180^\circ$. There are 2 figures and 10 references, 2 of which are Soviet.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennoce

universiteta (Institute for Nuclear Physics of Loccow

State University)

September 10, 1958 SUBMIT D:

Card 3/3

On the Part Played by the Exchange Effects in Stripping Leactions

507/56-16-3-30/71

In the following, a very complicated explicit equation is given for the amplitude square of process b), $\Gamma_{ij}^{(2)}$.

For the cases a) l = 1, j = 1/2, $J_1 = 1$, $T_1 = 0$ (jj-coupling)

b)
$$1 = 1$$
, $L_1 = 0$, $S_1 = 1$, $T_1 = 0$ (LS-coupling)

c)
$$1 = 0$$
, $J_1 = 1$, $T_1 = 0$

and some special reactions the reaction parameters are then calculated; two diagrams very clearly show the calculated curves; figure 1 shows the differential cross section of the

reaction $\sin^{29}(d,n)p^{30}$ in the angular range of from 0 to \cos^{9} , both for common stripping and for the knock out effect. Figure 2 shows the angular dependence of the differential cross section of the reaction

$$c^{13}(d,n)N^{14}$$
,

leudachin, . C., Teploy, I. S., $\cdot 21(7)$ ATTECHS: Shevehenco, U. I. On the large (topod by she fixehouse Streets in bird place Reactions (o reli obmennykh effektov v reaktoiyada i 199 TITLE: Zhusnal ekoperisensel'ney i teoreticheskoy finlli, 1959, Vel -6, e -, pp 850-853 (USSE) (EPICOICAL: Consideration of exchange effects in stripping reaching (Refr 1-4) thora that besides the "common" atrippin; the ica, A'SECACT: two further processes must be dealt with: c) the knoc out effect, and b) "heavy particle stripping" (Refs 2-07, 13 reference / the problem concerning the determination stripping cross section was investigated by means of the antisymmetric wave function. In the present paper the applicant investigate b) for several simple cases. For the capititudes of the processes it holds that $I = I_1 + (n-1)I_2 + (n-1)I_3$ n= number of nucleoss extended I₁→"com on" stripding the closed small in the primary nucleus $I_2 \rightarrow case e$ $I_{\eta} \rightarrow case b)$ Card 1/3

The Genealogical Coefficients in the Generalized Nuclear Model

507/56-36-1-25/62

investigated. The second part of the present paper deals with the genealogical coefficients and their calculation. By means of the genealogical coefficients it is possible to express the complete antisymmetric wave function of a markeons in form of a linear comtination of the antisymmetric wave functions of n-1 particles (which are rectorially connected with the wave function of the n-th particle by way of the isobaric spin). The genealogical coefficients are calculated by the method developed by F. J. Redmond (Ref 6). The calculation is described step by step. A table contains the genealogical coefficients for n=3 and n=4. There are 2 tables and 6 references.

ASSOCIATION: Institut yadernoy fizika Moskevskogo gosudarstvennogo universiteta (Institute of Numbear Physics of Moscow State University)

SUBMITTED:

June 24, 1958

507, 56-36-1-25, 62 24(5), 21(8) Neudachin, V. G., Sairnov, Tu. F. AUTHORS: The Genealogical Coefficients in the Generalized Nuclear Model (Genealogicheskiye koeffitalyenty v chobshchennoy TITLE: modeli yadra) Zhurnal eksperimentalincy i teoreticheskoy fiziki, 1959, PERIODICAL: Vol 36, Nr 1, pp 186-192 (USSR) The present paper describes a general investigation of the problem and determines a general formula for the calculation ABSTRACT: of the genealogical coefficient. The first part of this paper deals with the number of independent states. A nucleon in the nucleus is characterized by the charge and, in addition, by 4 quantum numbers, e. g. by nlj Ω , where Ω denotes the projection of the angular momentum of the nucleon on to the symmetry axis of the nucleus. The actual shape of this set of quantum numbers is not of essential importance for the here discussed problem (it is here denoted by K). First, the case is investigated in which all K, are different, Next, a pair with equal $N_{\underline{i}}$ is assumed. Finally, the case with khomogeneous pairs N contained in the total number n \gg 2k is Card 1/2

Exchange Effects in Stripping Reactions

507/56-35-5-16/56

17 references, 2 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Scientific Research Institute for Nuclear Physics of the Moscow State University)

SUBMITTED:

May 9, 1958

504/56-35-5-16/56 24(5) Neudachin, V. G. Exchange Effects in Stripping Reactions (Obmennyye effekty v AUTHOR: TITLE: reaktsii srjva) Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 5, pp 1165-1170 (USSR) PERIODICAL: It has already been shown that the antisymmetrizing of the general wave function may in special cases exercise considerable influence on results in the case of calculations of strip-ABSTRACT: ping reaction cross sections (Ref 1). For his investigation the author bases upon the results of the general scattering theory (Refs 2,3) and at first operates without antisymmetrizing. In consideration of the antisymmetry of the total wavefunction, formulae are derived for the purpose of calculating the differential cross sections of the stripping reactions (d,p) of (d,n) in Born's approximation. The most important case of shell configuration j^{n-1} for the initial nucleus and j^n for the final nucleus is considered. In conclusion, the author thanks K. A. Ter-Martirosyan for discussing the problems at issue. There are Card 1/2

On the Saripping Membraham in Resetting With Contare Saripping Membraham in Resetting With Contare Saripping process. The difference between a same of the stripping process. The difference between a same of consists in the fact that in a) the part plund in the ordin my stripping theory by the vibre of the orbital momentum is played here by 1 and in a) by L. Figure 2 shows the development of the strip of distribution of a process b), in (p,t) in for E = 12 and 35 MeV, belond figure 3 shows the make F or L= 2. In conclusion, the sathers thank S.S. Vasilyev for discussing the paper, and A.S. with the discussing the questions rated. There are figure and 15 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy gammaratvennyy universitet (Moscow State University)

On the Stripping Mechanism in Resetion. With Coping Strype-particles of Two Nucleons

1957). Investigation of reactions of the general type (n,t) is carried out by two processes: a)
The process of "successive stripping" (n-d-t) with the formation of deuterium in the intermediate at a, and b) Direct transition (n-t), the simultaneous capture of two nucleons. The authors inventigate the angular distribution of the partiales resulting from a) and b), taking account of the shell attracture of the nucleus, and derive (in Born's approximation) an expression for the differential cross section, which has the following form:

$$\frac{\mathrm{d}\sigma}{\mathrm{d}\Omega} = \frac{\mathbf{M}_n \mathbf{M}_t}{4\pi^2 \mathbf{L}^4} \qquad \frac{\mathbf{k}_t}{\mathbf{k}_n} \qquad \frac{1}{(2\mathbf{S}_n^{+1})(2\mathbf{J}_1^{+1})} \quad \mathbf{I}^2.$$

Figure 1 shows the course of the curve for the angular distribution of a process of the type a, of the reaction Li⁷ (p,t)Li⁵, E = 12 MeV and 1 = 1.For process a) as well as for process b) the developent of angular distribution is very similar to the

Card-2/4

24(5) Kamarov, V. V., Newlackin, V. G., AUTHORS: Popova, A. M., Toplov, I. B. On the Stripping Mechanism in $k_{\rm enctions}$ With Century of Two Nucleons (O mekhanisme sryva v reaktsiyaka : TITLE: zakhvatom dvukh nuklonov) Zhurnal eksperimental noy i teoreticherkoy fiziki, 1000, PERIODICAL: Vol 35, Nr 4, pp 974 - 977 (888k) The characteristic feature of angular distribution is ABSTRACT: the stripping reactions (d,p) and (d,n) and in the pickup reactions (p,d) and (n,d) is a maximum within the range of small angles. According to experise, to the pickup process may occur also in the reactions (n,t), (d,t),(d, α), and others. The authors of this paper carried out a jualitative invecting tion of reactions of the type (n,t),(p,t),(n,He) and (p,He) (the reaction (p,t) on Li was inventigated by A.I. Baz, and A.A. Ogloblin delivered a lecture on this subject at the Moscow Conference on Muclear Remations,

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700015-6

My market was Did.

56-4-14/54

AUTHOR:

Neudachin, V.G.

TITLE:

Relation between "Particle" and "Hole" Matrix Elements in the Nuclear Shell Theory (Syyaz' matrichnykh elementov dlya "chastits" i dlya "dyrok" v teorii yadernykh obolechek)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 4,

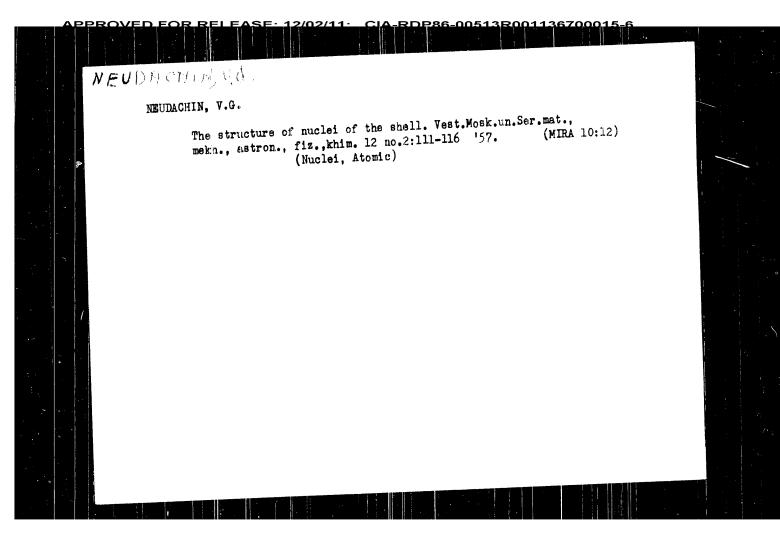
pp. 918 - 922 (USSR)

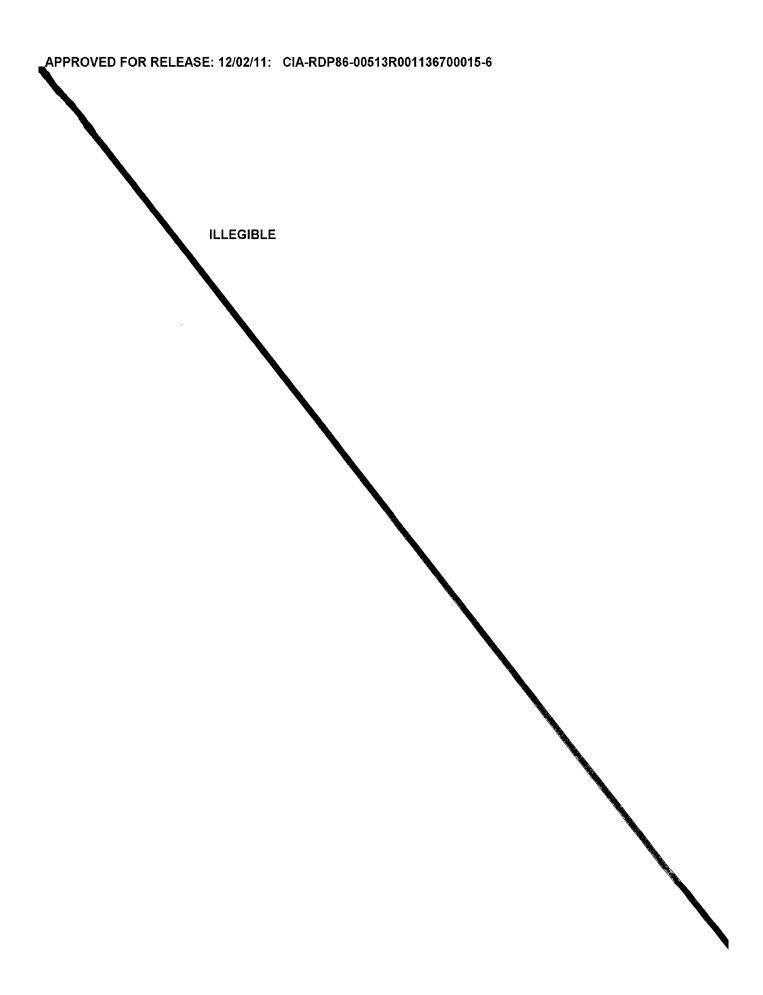
ABSTRACT:

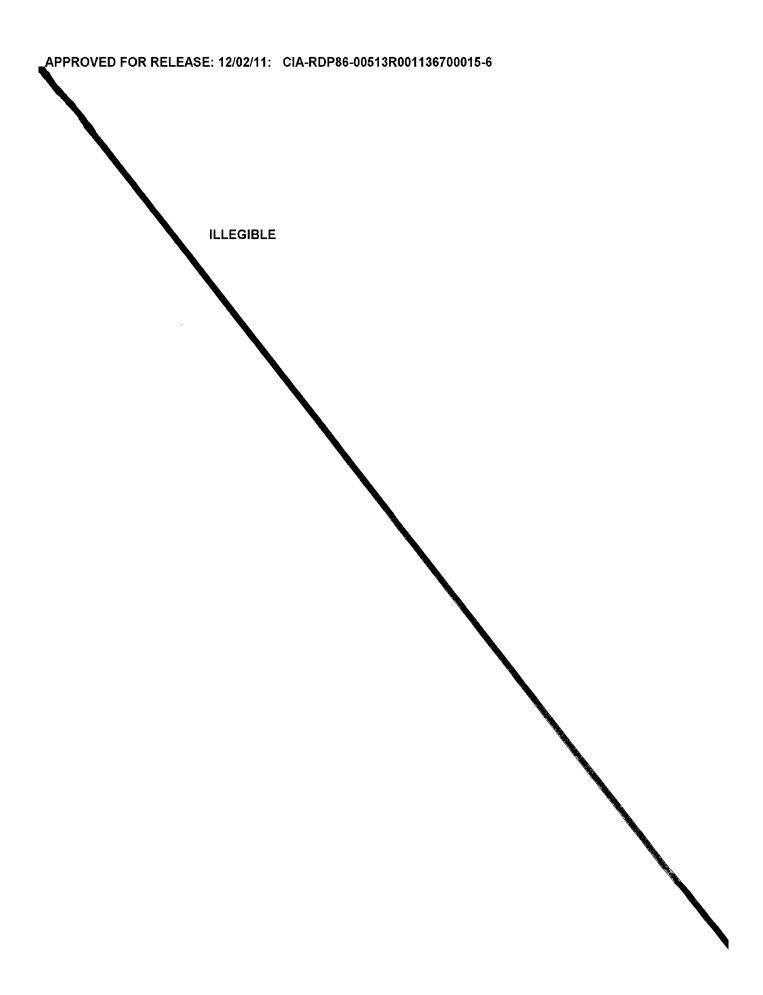
The relation between the matrix elements for the configuration "particles" of "holes" is theoretically treated for pair-operators. The configuration jm-n where n < m (m is the total number of places in the j-shell) is called the configuration composed of "holes" in the j-shell. The properties of the configuration states j^n and j^{m-n} are in many points equal. The following cases are concretely discussed: Central, tensor, spin, and path forces, expressed in two-part operators. There are 3 Slavic references.

card 1/2

Uard 2/2







Žurn.eksp.i teor.fis,31,fasc.5,892-893 (1956) CARD 2 / 2 PA - 1928

These values are typical for the nuclei of the corresponding shells. For nuclei with the shell 1 $f_{7/2}$ hardly any experimental material is available, but some

conclusions can nevertheless be drawn. The distinct difference between the values of ft for the mirror-image-like and not mirror-image-like transitions permits the conclusion to be drawn that the squares of the amplitudes of the admixtures the conclusion to be drawn that the squares of the amplitudes of the admixtures (with respect to isobaric spin) amount to not more than some percents. As long (with respect to isobaric spin) amount to not more than some percents. As long as in a stable nucleus the exterior neutrons and protons can be in one shell, as in a good quantum number. On the occasion of transition to heavier nuclei, the proton- and nucleon-shells are investigated separately and isobaric spin is then not used as a quantum number.

INSTITUTION:

NEUDATSIN, V G.

USSR / PHYSICS

CARD 1 / 2

PA - 1928

SUBJECT AUTHOR

TITLE

The Accuracy of the Isobaric Spin in Nuclei with the Shell 1 f7/2.

Zurn.eksp.i teor.fis,31,fasc.5,892-893 (1956)

PERIODICAL Issued: 1 / 1957

L.RADICATI computed the accuracy of the isobaric spin T in the lighest nuclei on the assumption that the inaccuracy of T is only due to COULOMB'S forces. The author carried out similar computations for the nuclei with the shells 1d and 1 f_{7/2} according to the method developed by G.RACAH, Phys.Rev.63, 367 (1943). First the various types of matrix elements are given. The inaccuracies of the isobaric spin of the lowest states of the nucleus connected with matrix elements of this type amounts to from 10⁻⁴ to 10⁻⁶ (squares of the amplitudes of admixtures ?). This inaccuracy depends comparatively little upon what configurations and what coupling type (LS- or jj-coupling) are investigated. While exchange interaction is neglected, an expression for the operator of COULOMB'S interaction of nucleons of the exterior not filled shell with the skeleton of the filled shells is given. The matrix element which is nondiagonal with respect to T becomes equal to zero because of the known orthogonality of the genealogical coefficients. This applies also if exchange interaction is taken into account and if the matrix element is written down in the most rigorous form. Computations were carried out by means of the wave functions of the oscillator and the parameters of these wave functions were essentially determined from the

Zurn.eksp.i teor.fis, 31, fasc.5, 891-891 (1956) CARD 2 / 2 occasion characterized by the configuration jn). In the aforementioned nuclei of Ca^{43} and V^{51} the selection rules for v forbid the transition M1 from any level of configuration $(f_{7/2})^n$ to the ground level of this configuration On the occasion of the f-transitions M1 and M3 it holds for the case of the configuration j^n , which is formed by neutrons and protons ($|M_T| \le n/2$), that Δ v = 0, ± 2, Δ T = ± 1,0. For the cases in which the isobaric spin T of the initial- and end states is equal to zero it applies that \triangle v = 0. For E2 radiation the selection rules $\Delta v = 0$, + 2 apply, which, however, are of no practical value. - The selection rules for the transitions M1 and M2 can also be derived in a very illustrative manner. Also the wave function of the state with the configuration jⁿ and with the seniority v is written down. The operator of the transition M1 is a pseudovectorial operator, and therefore the matter of the transition M1 is a pseudovectorial operator. trix element of the transition between a state with the wave function $\Psi_0^0(1,2)$ and a state with the wave function $\Psi_M^{J'}(1,2)$ (where J' can be only even) is equal to zero. It is just this that means that transitions with Δ v \neq 0 are forbidden. equal to zero. It is just this that are heavier than Ca 40. Such expractical use only in the case of nuclei that are heavier than Ca 20. periments can, in the case of nuclei with a 1 $f_{7/2}$ -shell, above all determine whether a j-j coupling or an intermediary coupling exists, and whether collective interaction is essential. INSTITUTION:

NEVDACHIN, V G.

CARD 1 / 2

PA - 1923

SUBJECT

USSR / PHYSICS

AUTHOR TITLE

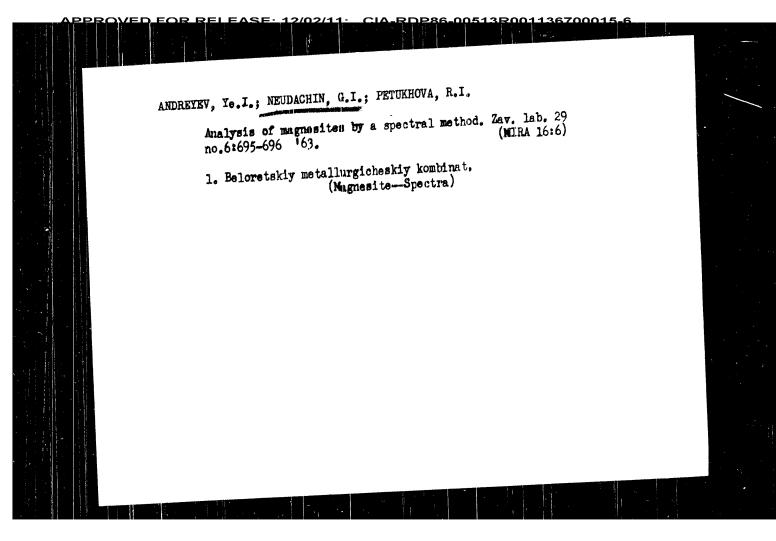
The Selection Rules for the Quantum Humber "Seniority" in Nuclear

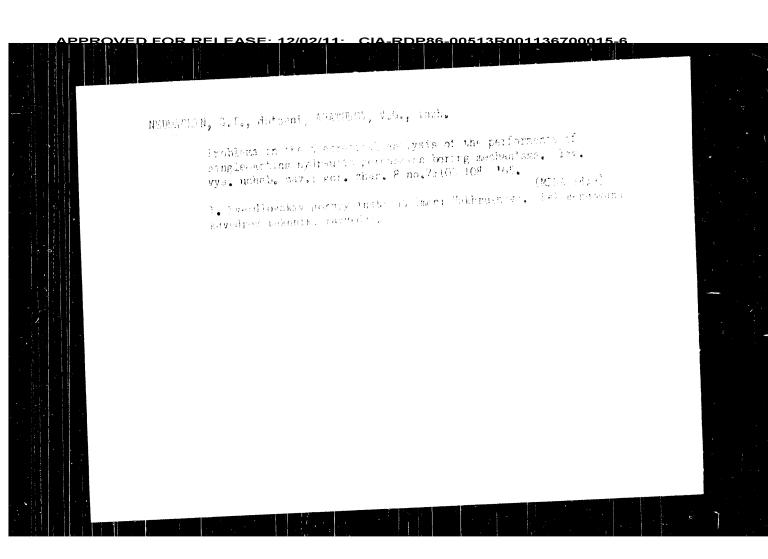
Reactions.

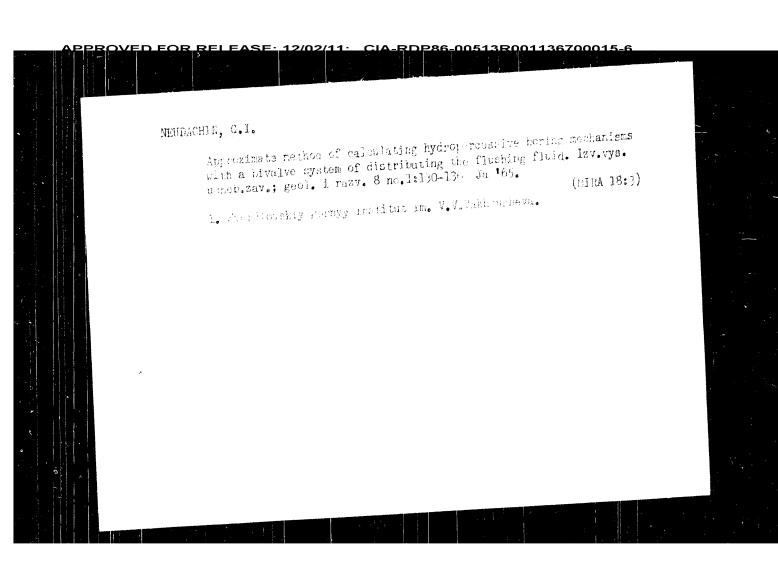
Žurn.eksp.i teor.fis, 31, fasc.5, 891-891 (1956) PERIODICAL

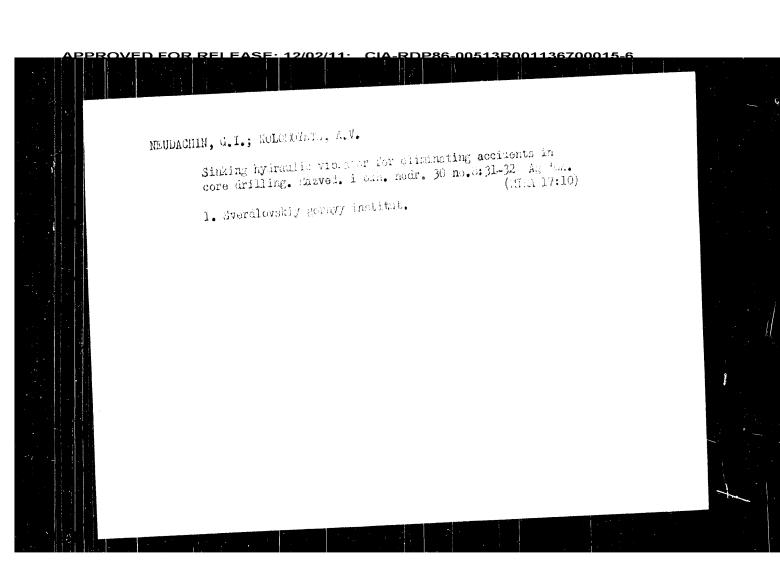
At present the degree of accuracy of this quantum number (here denoted by v) is not yet clear. This problem is closely connected with the exactness of j-jcoupling. In order to be able to determine the necessary experimental material one must examine how the selection rules are satisfied with respect to v in nuclear reactions. These rules can be obtained easily on the basis of the results On the occasion of a reaction with the capture or emission of a j-nucleon (inion the occasion of a reaction with the capture of emission of a joint configuration j^n , end configuration j^{n+1} or vice versa) it holds that Δ v = +1. In particular, a stripping reaction on even-even nuclei (as e.g. in the shell f_{7/2}) need not lead to the production of a nucleus in the excited state $J = \frac{7}{2} - (T = T)$ of the ground state) with v = 3. However, such excited state $J = \frac{7}{2} - (T = T)$ of the ground state) with v = 3. However, such excited states of the nuclei with the shell f . have so wet not been observed experistates of the nuclei with the shell f_{7/2} have as yet not been observed experimentally. On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the On the occasion of the transitions M1 and M2 in the nuclei in which, outside the Only M1 and M2 in the nuclei in which, outside the Only M1 and M2 in the nuclei in which, outside the Only M1 and M2 in the nuclei in which, outside the Only M1 and M2 in the nuclei in which, outside the Only M1 and M2 in the nuclei in which, outside the Only M1 and M2 in the nuclei in which is the occasion of it applies that Δ v = 0. (The aforementioned neutrons or protons are on this

NEUDACHEN, V. G. NEUDACHIN, V. G. -- "On the Problem of Quantum Numbers and Calculation Methods in the Theory of Nuclear Shells." Moscow Order of Lenin and Order of Labor Red Banner U imeni M. V. Lomonosov. Moscow, 1955. (Dissertation for the Degree of Candidate of Physicomathematical Sciences.) SO: Knizhnava letopisi, No. 4, Moscow, 1956









NEUDACHIN, G.I.; KURKOV, G.A.; SULTANOV, B.Z.; KOLOMOYETS, A.V. Practice of using double-column vacuum pipes. Razved. i okh. nedr 29 no.9:54 S '63. (MIRA 16:10) 1. Sverdlovskiy gornyy institut.

MEUTACHIN, G.I.; SHOLOKHOV, L.G.

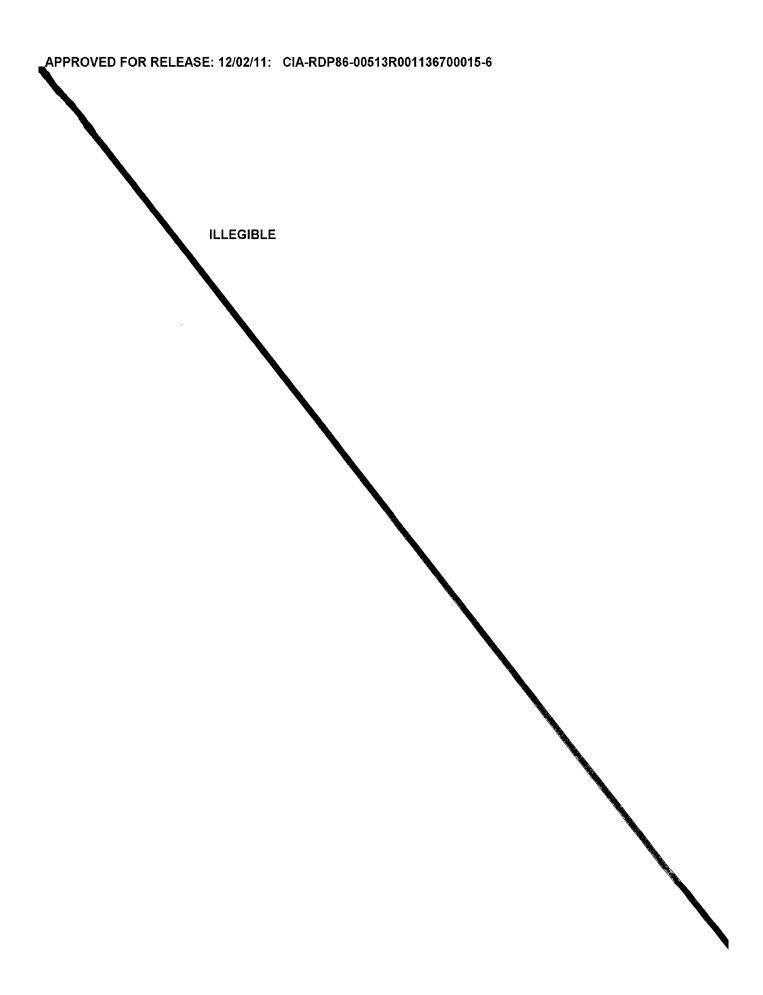
Double core barrel drills for shot and hard alloy drilling. Izv.vys.ucheb.zav.; geol.i razv. 2 no.ll:101-107 N *159.

1. Sverdlovskiy gornyy institut.
(Boring machinery)

ARASHKEVICH, V.M., dotsent; VESELOV, A.I., professor; VOLOTKOVSKIY,
S.A., professor; ZHUKOV, L.I., dotsent; IPPOLITOV, M.D., dotsent;
KUTTUKHIN, P.I., dotsent; KOMPANE MITS, V.P., dotsent, MALAKHOV,
A.Te., professor; SAKOVISEV, G.P., dotsent; STOVILOV, B.A., dotsent; TROP,
professor; SAKOVISEV, G.P., dotsent; STOVILOV, B.A., dotsent,
A.Ye., dotsent; FEDOROV, S.A., professor; YAMOSH, A.Ye., dotsent,
redaktor; TARKHOV, A.G., redaktor; GAMPUNTSEVA, Ye.Ye., redaktor;
QUNOVA, G.A., takhnicheskiy redaktor.

[Collection of articles on geophysical methods of prospecting]
Shornik statel po geofizicheskim metodum razvedki. Moskvu, dos.
Shornik statel po geofizicheskim metodum razvedki. Moskvu, dos.
Shornik statel po geofizicheskim metodum razvedki. Moskvu, dos.
(MLRA 8:11)

1. Sverdlovok.Goruyv institut.
(Prospecting—Geophysical methods)



SOURCE CODE: CZ/0045/66/000/001/0021/0030 IJP(c) EWI(d)/T38335-66 AP6027993 ACC NR Moubrunn, Tibor (Bratislava) B AUTHOR: ORG: Department of Mathematical Analysis, Faculty of Matural Sciences, Komensky University, Bratislava (Katedra matematickej analyzy, Prirodovedeska Fakulta, Univerzita Komenskeho) TITIE: Note on absolute continuity of measures SOURCE: Matematicko-fyzikalny casopis, no. 1, 1966, 21-30 TOPIC TAGS: measure theory, asymptotic property, continuous function ABSTRACT: The paper deals with questions related to the absolute continuity and to the asymptotic absolute continuity of measures. A theorem on a t-dominated system of σ-ideals is proved. Based on author's Eng. abst. J [JPRS: 36,845] SUB CODE: 12 / SUBM DATE: 03Dec64 / SOV REF: 001 / OTH REF: 004 رايمار

Card 1/1

NFUBRUNN, T. On metric spaces associated with secrite spaces. Note Title Univ Com 7 no.12:663-673 165. 1. Katedra matematiky, Universita Kamanakaho, bratislava, Smeralova 2.

PPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700015-6

NEUBERTUVA, K.

CZECLOSIOVAZIA

MLADEK, A., MD; NEUBERTOVA, K., MD.

1. First Surgical Clinic of the Faculty of General Medicine of Charles University (I. Chirurgicka klinika fakulty vseobecneho lekarstvi KU),
Prague; 2. Surgical Clinic of the Medical Faculty of Charles University (Chirurgicka klinika lekarske fakulty KU), Hradec Kralove (for all)

Prague, Prakticky lekar, No 10, 1963, pp 365-368

"Traumatic Disorders of the Heart."

KRYL, R.; NEUBERTOVA, E. Long-acting sulfonamides. Cas. lek. cesk. 101 no.46: Lek Veda Zahr: 232-240 '62. l. Klinika infekcnich nemoci lekarske fakulty hygienicke KU v Praze, prednosta prof. dr. V. Kredba.
(SULFONAMIDES) APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700015-6

KRYL,R.; NEUBERTOVA,E.; BERANOVA,Z.

Sulfamethoxidine. Experimental and clinical experiences with the new Czechoslovakian sulfonamide 2-sulfanilamido-5-metho-xypyrimidine. Cas.lek. cesk. 103 no.14:366-373 3 Ap.64

1. Klinika infekcnich nemoci lekarske fakulty hygienicke KU, Praha-Bulovka (prednosta: prof. dr. V.Kredba) a Ustredni biochemicke lanoratore nemocnice na Bulovce, Praha 8, (vedouci: MUDr. K.Masek).

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700015-6 NEUBERT, B. Eletation of sugar position the community it residual that of healthy children. It is not as a substantial filter of the 190-8026(1902) of healthy approximate a substantial filter of the CEEP sugar mentioned in the community of the community of

PPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700015-6

HUNGARY/Physical Chemistry, Crystals.

B-5

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42449.

varieties of coal are almost identical in chemical structure and differ only in the proportions of arcmatic and aliphatic portions of the structure.

Card : 3/3

5-5 HUNGARY/Physical Chemistry. Crystals. Abs Jour: Ref Zhur-Khim., No 13, 1958, 42449. Number of C-atons is of about 40 with a molecular weight of the unit of 500. During carbonization the molecular weight of the units changes from 600 with 80% C to 500 with 93-94% C. Carbonization takes place in 2 phases: 1) on increase of C from 80 to 88% the Hz content and specific volume of hydrocarbon framework are approximately constant and change in structure is effected essentially by a change in the amount of o from 12 to 45; 2) on change in C from 88 to 94% specific volume decreases, content of H decreases from 5 to 3%, there takes place a breakdown of the aliphatic portion. Degree of condensation of aromatic nuclei during carbonization increases only slightly. Different petrographic : 2/3 Card

HUNGARY/Physical Chemistry. Crystals.

B-5

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42449.

Author : Heredy L., Neuberger V., Rona V. Inst : Hungarian Academy of Sciences.

Title : The Structure of Coal.

Oric Pub: Acta chim. Acad. sei. hung., 1957, 12, No 1,

35-56.

Abstract: On the basis of a modified equation of Franklin (Franklin R. E., Fuel, 1948, 27, 46) for the correlation between specific volumes and H content, the following conclusions are arrived at concerning structure and carbonization process of coal. Coal is considered to be a supercooled liquid. Structural units of coal consist of aromatic nuclei

with added, aliphatically bonded, CH₂-groups.

Card : 1/3

NEUBERGER, Gideon, ing. principal (Bucuresti) Aspects of chemical water control in thermal power plants. Energetica Rum ll no.2:74-77 $\,$ F '63. 1. I.R.M.E.

MEDERAGER, G., ing.

MEDERAGER, G., ing.

Criteria on the new draft of thapter 16, water Treatment, of the Technical Exploitation Prescription. Emergetica Num 12 no. 4:172-175 Ap '64.

1. Head of the Office of themical Mationalizations, Enterprise for Plectric Power Mationalization and Modernization.

NEUBERGER, G.

RUMANIA / Chemical Technology, Chemical Products and Their Application. Corrosion. Protection from

Н

Corrosion.

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 64790

: Neuberger G Author

: Factors That Cause and AcceleratedCorrosive Inst Title

Processes

Orig Pub: Energetica, 1957, 5, No 11, 534-545

Abstract: Basic factors were studied that influence corrosive processes taking place in steam kettles: the in-

fluence of the pH of solutions, the content of solute 02, the presence of an acceleration or a

Card 1/2

GULYAKIN, I.V., prof., doktor biolog. nauk.; YUDINTSEVA, Ye.V., kand. biolog. nauk, starshiy nauchnyy sotrudnik: NEUBERG, Ya., aspirant; LEVIMA, E.M., nsuchnyy sotrudnik

Investigating the proportion between strontium-90 and calcium in soils and in plants. Izv. TSKhA no.5:29-46'59 (Mika 13:3)

(Calcium) (Strontium) (Plants--Assimilation)

MEDBERG, Marcoslav, Cand Agric Sci (diss) -- "Problems of the agrochemistry of strontium-90". Moscow, 1959. 17 pp (Moscow Order of Lenin Agric Acad im K. A. Timiryazav), 100 copies (KL, No 9, 1000, 127)

NEUBERG, Jaroslav, inz., C.Sc.; HOMOLA, Vaclav, inz. Research on combined fertilizers in Gzechoslovakia. Agrochem 2 no.1:3-7 162. 1. Ceskoslovenska akademie zemehelskych ved, Vyzkumny ustav rostlinne vyroby, Praha-Ruzyne.

NEUBERG, Jaroslav, inz., CSc. Tasks of research on plant nutrition during the intensification of agricultural production. Rost vyroba 9 no.ll:1127-1128 N $^{1}63$. 1. Ustredni vyzkumny ustav rostlinne vyroby, Ruzyne.

Neubers, J. AGRICULTURE A Moscow conference on the application of isotopes in agriculture. p. 299 Vol. 5, no. 6, 1958 Monthly Index of Mast European Accessions (MeAI) LC, Vol. 8, No. 4 , April 1959 For a further increase in the yeeld of arricultural plants. p. 302.

TEUBER, B.

SEUBER, B. Loading and unloading technique in the Scandinavian countries.

Tr. from the German, p. 91.

Vol. 12, no. 2, Feb. 1956
LES

MORICULTURES

Czechoslovakia

So: Mast Europea: Accession, Vol. 6, No. 5, Nay 1957

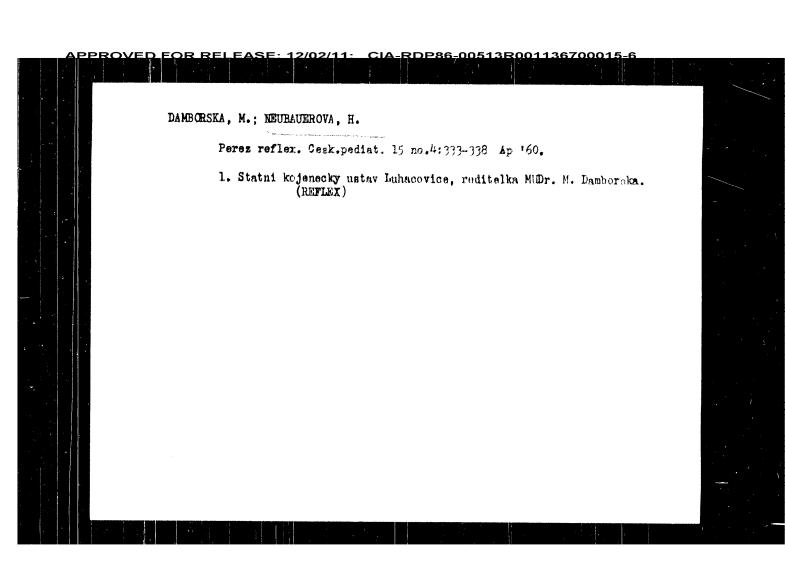
DAMBORSKA, M.; NEUBAUEROVA, H.; detaka sestra P. Stepanova

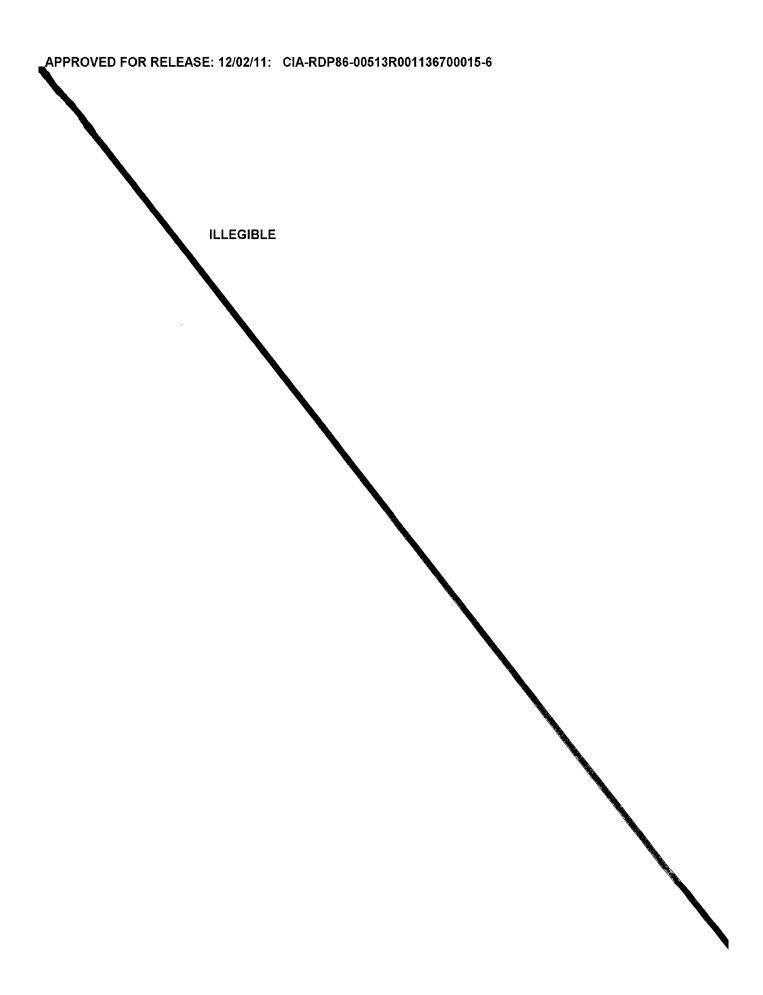
Development of vision in the 2d quarter year of life. Cesk. pediat. 16 no.5:496-501 Je '61.

1. Kojenecky ustav Luhacovice, reditelka MUDr. M. Damborska.

(VISION im infancy & childhood)

(EYE in infancy & childhood)





APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700015-6

YUGOSLAVIA

Prof Dr R. NEUHAUER and Dr D. SAVIC [Affiliation same as above.]

"Tuberculosis in Yugoslavia. Status and Trends of Tuberculosis and Anti-Tuberculosis Service."

Belgrade, Narodno Zdravlje, Vol 19, No 5, 1963; pp 152-159.

Abstract: Continuation of study on a very vast scale. Many aspects are discussed here, e.g. inadequacy of places in hospitals and of beds at home (41% of the patients with tuberculosis in Yugoslavia still share their beds with other persons in the family!) detailed discussion of various regional inadequacies and needs, improper emphasis in use of funds, staff and equipment, patterns and needs of occupational therapy efforts; tables show e.g. number of patient visits for Yugoslavia as a whole and by 9 administrative divisions, also by various diagnostic classifications. Six tables.

1/1

2463, 2542

PPROVED FOR RELEASE; 12/02/11: CIA-RDP86-00513R001136700015-6

MUGOSIAVIA

MEUTAGER, Prof Dr R., and Dr D. SAVIC, Federal Public Health Institute (Savezni Zavod za Zdravstvenu Zastitu).

"Tuberculosis in Yugoslavia."

Belgrade, Marodno Zdravlje, Vol 19, No 4, 1903, pp 115-124.

Abstract: The authors continue their series of articles by discussing tuberculosis as a socio-economic problem (in terms of the loss to the national economy through death, absenteeism, and invalidism) and the current state of the anti-tuberculosis service in terms of institutions (the authors find that the overall number of anti-tuberculosis dispensaries should be increased 50 percent, with concentration on the Mosmet and Macedonia, to meet the modest requirement of one such dispensary per 40,000 inhabitants) and personnel (the authors find that physicians are overburdened with administrative detail and that there is inadequate cooperation between hospital and dispensary personnel dealing with tuberculosis). Several tables and p/1/charts, no references.

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YUGOSLAVIA

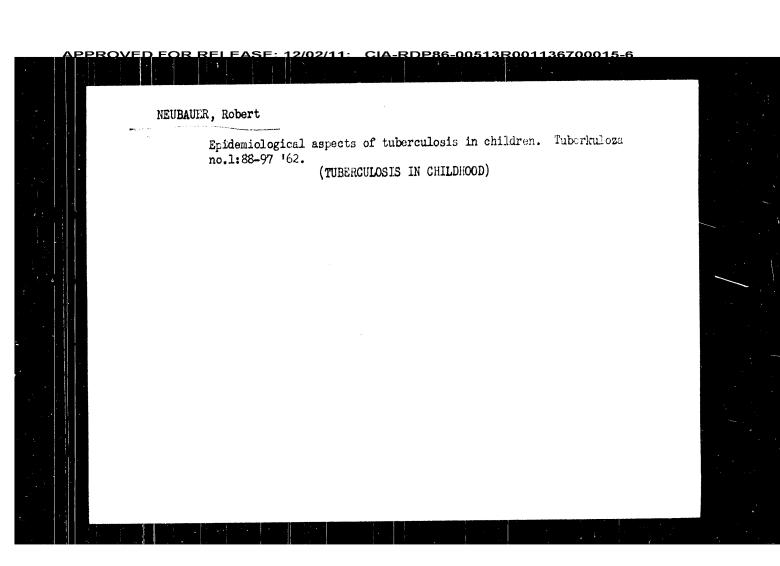
Prof Dr R. NEUBAUER and Dr D. SAVIC, Federal Institute for Health Protection (Savezni zavod za zdravstvenu zastitu).

"Tuberculosis in the FNRJ. The Status and Trends of Tuberculosis and Anti-Tuberculosis Service."

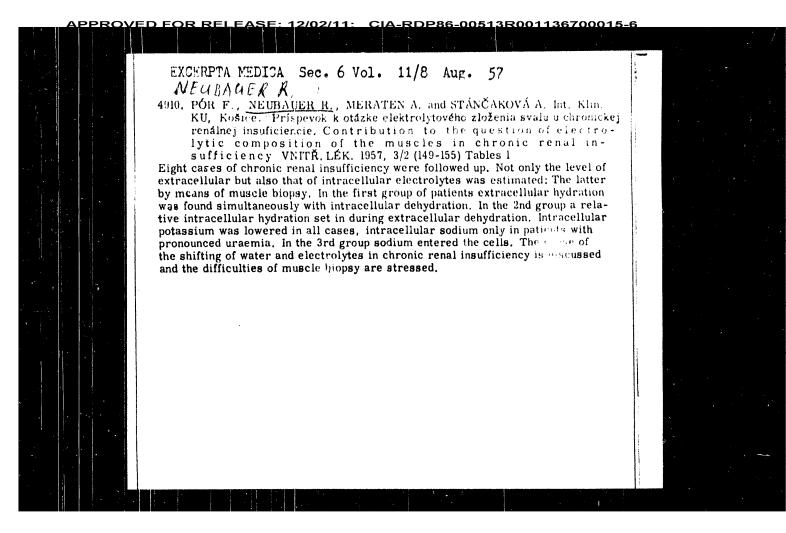
Belgrade, Narodno Zdravlje, Vol 19, No 3, 1963; pp 77-87.

Abstract: Data and discussion of adequacy of examinations of high-risk contacts (family of patients with active tuberculosis, health personnel caring therefor) ranging from 100% in Slovenia to 15% in Montenegro; mass screening (insufficient number of mobile x-ray units, inadequate methods of film processing;) vaccination (use of domestic BCG is often inconsistent even in hospital-born newborns;) tuberculin testing; bovine tuberculosis which is not a key problem in Yugoslavia. Slovenia continues to lead other republics in public health measures but over-all situation is improving albeit slowly. Map, 7 tables, 5 graphs.

|1/1



NEUBAURR, R.; KARLIN, M.; KORSIKA, L.; FILIPEC, L.; KOMAR, M.; HANUT, E. Certain considerations on the recurrence of pulmonary tuberculosis. Tuberkuloza, Beogr. 11 no.3:318-327 '59. 1. Ftizioloska klinika, Ljubljana; Bolnica za tuberkulozu, Sezana. (TUBERCULOSIS PULMOMARY therapy)



NEUBAUER, Robert, Prof., dr., (Ljubljana) Tuberculosis today. Med. glasn. 10 no.11-12:436-441 Nov-Dec 56. (TUBERCULOSIS, statist. (Ser))

NEUBAUER, Pal, dr.; KERENYI, Andras Experiences of the centralized branch management on the Hajdu-Bihar County state farms; a polemic article. Munka szemle 6 no.8:24-31 Ag 162. NEUBAUER, M.; DUBEN, J. Haemophilus influenzae and its importance in clinical practice. I. Microbiological - epidemiological aspects. Cesk. epidem. 13 no.3:183-188 My'64 1. Mikrobiologicke oddeleni OHES [Okresni hygicnicko-epidemiologicka stanice], Havlickuv Brod.

NEUBAUER, M.; DIBEN, J. Haemophilus influenzas ena its importance in clinica. practica. II. Pathogenesis. (esk. epidem. 13 no.5:305-31. d fo... 1. Mikrobiologicke oddeleni Okresni hygienicko-epidesso.ogicku stanice, Havlickuv Brod.

NEUBAUER, M.; KUBAT, Z.

Role of dipatheroid microorganisms in the etiology of inflatatory eye diseases. Shorm. lek. 64 no.2/9:258-261 Ag '62.

1. Mikrobiologicke oddeleni OES v Havlicke Brode, prednosta dr. J. Duben I. ocni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. E. Dienstbier.

(OPHTHALMIA microbiol) (COMMEBACTERIUM infect)

MEURAUER, M.; KURAT, 2d.

Contagious pneumococcal pharyngoconjunctivitis. Sborn. lek. 63 no.7/8:

201210 71M61.

1. Mikrobiologicke oddeleni OHES v Havlikove Brode, prednosta MUDr.

J. Duben I. ooni klimika fakulty vseobecneho lekarstvi University

Karlovy v Praze, prednosta prof. dr. E. Plenstbier.

(PHARINGITIS eticl.) (CONJUNCTIVITIS eticl.)

(PNEUMOCOCCAL INFECTIONS physiol.)

KUBAT, Zdenek; NEUBAUER, Miloslav

Bacteriology of external inflammatory eye diseases and some notes on their treatment. II. Therapy. Cesk. ofth. 17 no.6:454-460 S '61.

1. Omi oddeleni OUNZ v Havlickove Brode, prednosta MUDr. R. Wagner, Mikrobiologicke oddeleni OHES v Havlickove Brode, prednosta MUDr. J. Duben.

(EYE microbiol)

KUBAT, Zdenek; NEURAUER, Miloslav

Bacteriology of external inflammatory eye diseases and some notes on their treatment. I. Etiology. Cesk. of th. 17 no.6:450-453 S '61.

1. Ceni oddeleni OUNZ v Havlickove Brode, prednosta MUDr. R. Wagner, Mikrobiologicke oddeleni OHES v Havlickove Brode, prednosta MUDr. J. Duben.

(EYE microbiol)

MIBAT, Zdenek, NAUBAUHR, Miloslav A contribution to the etiology of external inflammatory diseases of the eye. Cesk.ofth.16 no.7:401-403 N'60. 1. Ocni oddeleni OUNZ v Havlickove Brode, prednosta MUDr.R. Wagner. Mikrobiologicke oddeleni OHES v Havlickove Brode, prednosta MUDr. J. Duben. (OPETHALMOLOGY etiol)

Intestinal Clostridium infections. Cesk. epidem. mikrob. imun. 8 no.2:107-112 Mar 59.

1. Mikrobiologicke oddeleni OHES v Havlickove Brode, Infekcni odd. OUNE v Havlickove Brode. M.N., Mikrobiol. oddel. OHES, Ravlickuv Brod.

(CLOSTRIDIUM PERFRINGENS, infect. diarrhea (Cz))
(DIARRHHA, microbiol.

Clostridium perfringens (Cz))

DUBEN, Josef; NEIRAUER, Miloslav; GALLEROVA, Blanka za technicke spoluprace A. Novotne. Two cases of herpangina with isolation of a group A Consackie virus. Cesk. epidem. mikrob. imun 7 no.4:231-234 July 58. (HERPANGINA, case reports isolation of group a Coxsackie virus (Cz))

NEUBAUER, Miloslav; DUBEN, Josef; DUBEN, Zdenek

Angina due to Pasteurella. Cesk. epidem. mikrob. imun.
6 no.3:183-185 May 57.

1. Mikrobiol. oddel. KHES v Havlickove Brode Veterinarni etredisko, Caslav.
(TONSILLITIS, etiol. & pathogen.

Pasteurella multocida (Cz))
(PASTEURELLA, infect.
P. multocida infect. causing tonsillitis (Cz))

DUBEN. Josef; NEUBAUER, Miloslav; DUBEN, Zdenek

Corynebacterium pyogenew bovis; a comparison of the strains of animal origin with human variants. Ceek. epidem. mikrob. imun. 6 no. 3:169-178 May 57.

1. Mikrobiol. oddeleni OHES v Havlickove Brode, Veterinarni stredisko v Caelavi.

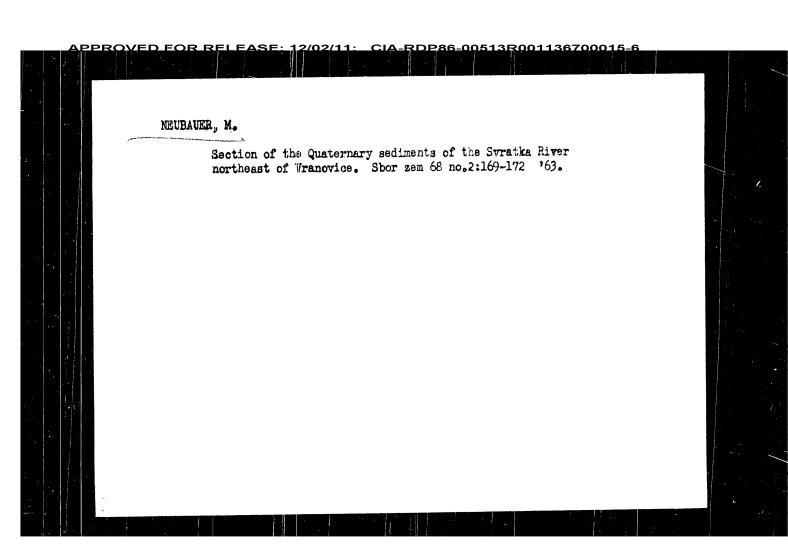
(CONTRIBACTERIUM pyogenes bovis, comparison of strains of animal origin with human variants (Cz))

Green's theorem; a report on the lecture given by Dr. Jan Marik before the meeting of the Prague Circle of Mathematicians on March 26, 1956. p. 476.

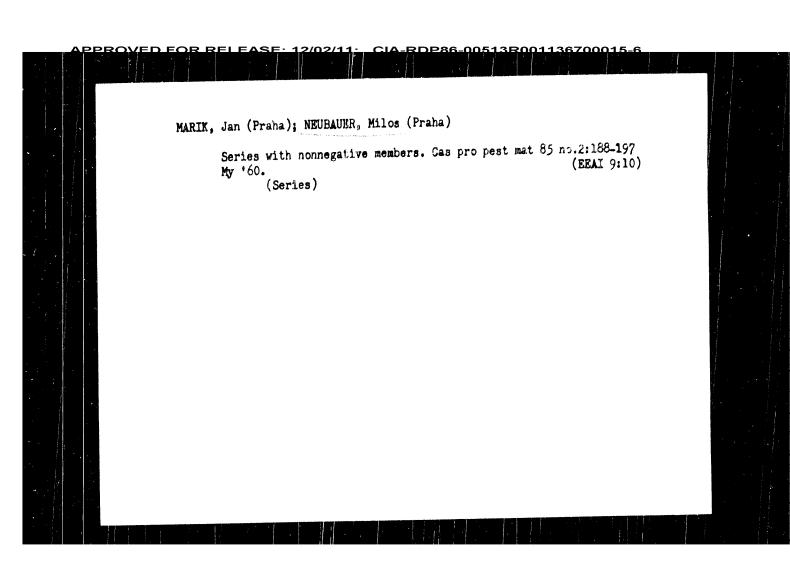
(Casopis Pro Pestovani Matematiky. Vol.51, no.4, Nov. 1956. Para, Czechoslovakia)

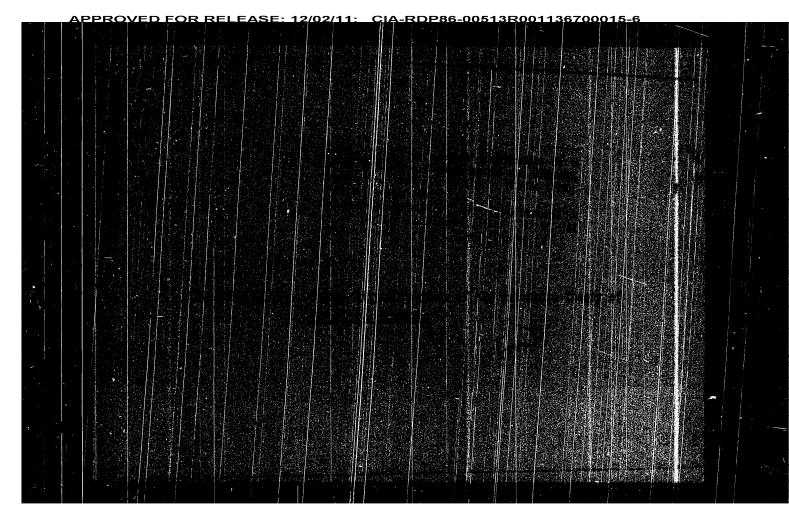
SO: Monthly List of East European Accessions (EEAL) LC, Vol.6, no.6, June 1957. Uncl.

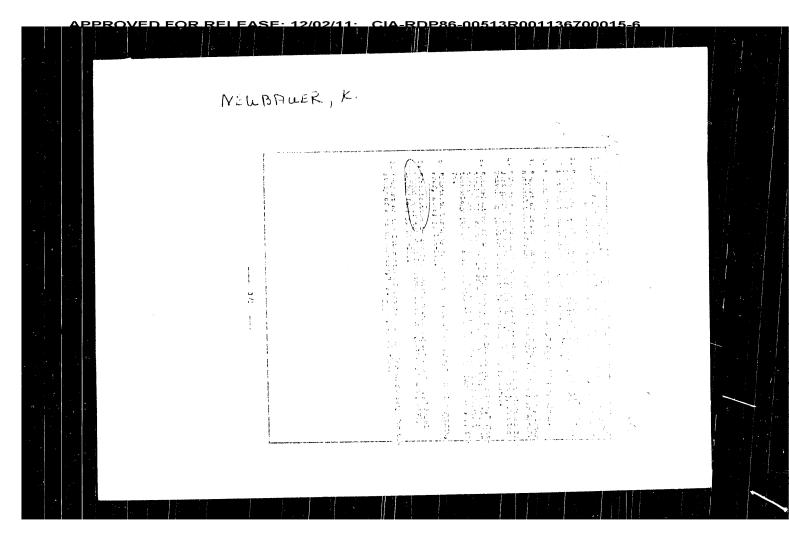
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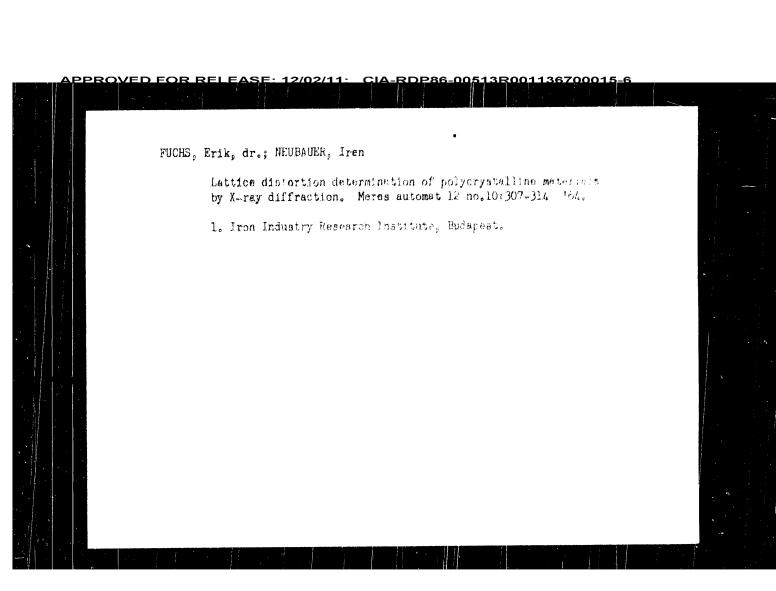
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Dr Joze MEUBAUMER, Department of Internal Medicine, General Mespital (Interni oddelek Obce bolnice), Ptuj.

#Alimentary Lead Intoxications."

Zagreb, Lijecnicki Vjesnik, Vel 05, No 2, 1963; Ff 139-140.

Abstract [Genman summanry modified]: Review of clinical data on 40 fatients with chronic saturnism; in 33 definitely attributable to lead-glazed earthenware pottery. Only 2 were correctly diagnosed by referring physician, but the gray gingival line was pathognomonic in all. The German exchange resin Mosatil was used not only diagnostically but also as therapy. Map, 2 tables, 4 graphs; 2 German and 7 Yugoslav references.



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(EXERCISE, eff.

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eff. of strenuous musc. exercise (C2))

(KINNEYS, in pregn.

same))

(PREMANCY, physiol.

eff. of strenuous musc. exercise on liver & kidney funct. (Cz))